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## PREEMPTIVE MULTI-TASKING WITH COOPERATIVE GROUPS OF TASKS

## Abstract of the Disclosure

An operating system combines preemptive scheduling with cooperative or non-preemptive scheduling. In particular, tasks are divided into groups of interdependent tasks. Interdependent tasks are tasks that utilize the same modules of code or resources Each group includes tasks that should not be run asynchronously relative to each other. The scheduler in the operating system provides each group with a time slot of processor time. The tasks within the group are cooperatively scheduled to exploit the time slot assigned to the group. Dependencies between modules and tasks are maintained to assure that no difficulties arise amongst preemptively scheduled groups.